

# INTERNATIONAL SEARCH REPORT

Int'l Application No  
PCT/GB2004/002806

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 E21B34/10 E21B21/10

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 E21B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2003/024706 A1 (ALLAMON JERRY P) 6 February 2003 (2003-02-06)  paragraph '0003!; figures 2-4c	1-6, 11-17, 20,22
A	US 5 890 540 A (ARMELL RICHARD ALVIN ET AL) 6 April 1999 (1999-04-06) column 1, lines 8,9; figures 1-10	7-10
A	US 6 173 795 B1 (MCGARIAN BRUCE ET AL) 16 January 2001 (2001-01-16) column 1, lines 4,5; figures 1-3A	7-10

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

### \* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*Z\* document member of the same patent family

Date of the actual completion of the international search

14 October 2004

Date of mailing of the international search report

22/10/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 MV Rijswijk  
Tel (+31-70) 340-2040, Tx. 31 651 epo nl  
Fax (+31-70) 340-3016

Authorized officer

Georgescu, M

# INTERNATIONAL SEARCH REPORT

Int. Patent Application No.  
PCT/GB2004/002806

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2003024706 A1	06-02-2003	US 2002074128 A1	20-06-2002
US 5890540 A	06-04-1999	GB 2302895 A , B	05-02-1997
US 6173795 B1	16-01-2001	CA 2254815 A1	18-12-1997
		EP 0904479 A1	31-03-1999
		WO 9747850 A1	18-12-1997
		GB 2314106 A , B	17-12-1997
		NO 985639 A	03-12-1998